IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

YAMAGATA et al.

Examiner:

unknown

Serial No.:

10/037,866

Group Art Unit:

2821

Filed:

Title:

October 24, 2001

Docket:

10873.0326USD1

Confirmation

5239

No.:

Notice of Allow. Date:

Due Date:

n/a

DEVICE FOR CALCULATING DIFFRACTION EFFICIENCIES OF A DIFFRACTION LENS,

LENS WITH GRATING ELEMENT, AND OPTICAL SYSTEM FOR READING

CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on May 2, 2003.

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

We are transmitting herewith the attached:

Transmittal Sheet in duplicate containing Certificate of Mailing

Supplemental Information Disclosure Statement, Form 1449, 3 Reference(s)

Other: Japanese Office Action dated May 23, 2000 and Japanese Office Action dated April 25, 2002.

Return postcard

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers or any future reply, if appropriate. Please charge any additional fees or credit overpayment to Deposit Account No. 13-2725. A duplicate of this sheet is enclosed.

MERCHANT & GOULD P.C. P.O. Box 2903, Minneapolis, MN 55402-0903 612.332.5300

PATENT TRADEMARK OFFICE

Name: Douglas P. Mueller

Reg. No. 30,300 D. Mueller:smm

(PTO TRANSMITTAL - GENERAL)



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

YAMAGATA et al.

Examiner:

unknown

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Name: Sarah Monfeldt

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(b))

Mail Stop Patent Application

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted before the mailing date of a first Office Action on-the-merits. Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F.R. §1.98(a)(2), a copy of each document or other information listed on the enclosed Form 1449 is provided.

A concise explanation of the relevance of each non-English language document or other information is as follows (37 C.F.R. §1.98(a)(3)):

Enclosed is Japanese Office Action dated May 23, 2000, citing Georgia Institute Of Technology, "Diffractive Optics Work Shop", March 21-24, 1995.

Enclosed is JP Office Action dated April 25, 2002, citing Hugh D. Young, "Physics", Extended Version with Modern Physics, p 1056 and John M. Cowley, "Diffraction Physics", pp 44-46.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Please charge any additional fees or credit any overpayment to Deposit Account No. 13-2725.

Respectfully submitted,

MERCHANT & GOULD P.C.

P.O. Box 2903

Minneapolis, Minnesota 55402-0903

(612) 332-5300

B.

Douglas P. Mueller

Reg. No. 30,300

DPM:smm

Dated: May 2, 2003

	RMATION DISCLOSURE STATEMENT	Docket Number: 10873.0326USD1	Application Number:	
PEZC	IN AN APPLICATION	Applicant: YAMAGATA et al.		
MAY 0 6 2003	(Use several sheets if necessary)	Filing Date: October 24, 2001	Group Art Unit: 2821	

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EXAMINER INITIAL	DOCUM	ENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
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	Georgia Institute Of Technology, "Diffractive Optics Work Shop", March 21-24, 1995								
		Hugh D. Young, "Physics", Extended Version with Modern Physics, p 1056							
		John M. Cowley, "Diffraction Physics", pp 44-46							
	t								

 23552
PATENT TRADEMARK OFFICE

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

法之

地 受 發文日期:中華民國八十九年五月二十三日

址:台北市長安東路二段一一二號九樓

經濟部智慧財產局專利核駁審定書

SY-8 253

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發文字號:〈八九〉智專一〈四〉02034字

、申請案號數:〇八七一一五二〇〇

分類:G02B 3/08, 27/42, 13/24

二、發明名稱:繞射鏡之繞射效率計算裝置,具有光栅元件之透鏡及讀取光學系統 三、申請人:

專利代理人:

地址:日本

名稱:松下電器產業股份有限公司

姓名:林鎰珠 先生

地址:台北市長安東路二段一一二號九樓

五、申請日期:八十七年九月十一日

六、優先權項目:

1 1997/09/24 日本258132

第一頁

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1997/10/03 日本270933

3 1997/11/20 日本320127

八、審定內容:

七、審查委員姓名:李孝文 委員

主文:本案應不予專利

依據:專利法第二十條第二項。

理由:

一)本案 技術 示一除色繞射鏡之設計技術及利用鑽石切削加工機所製做繞射鏡模具之繞射效率的計算 「繞射鏡之繞射效率計算裝置,具有光栅元件之透鏡及讀取光學系統」,主要係揭

(二)申請專利範圍第一項至第十二項所述之方程式及/或演算機構,係一標準的繞射效率計 進步性 削加工量測資料,亦係一標準的電腦輔助設計及製造加工系統。不符合發明專利要件之 Technology, March 21-24, 1995)中所揭示。除此之外,整個的演算流程及所配合的車 算方法及/或計算裝置,如Diffractive Optics WORK SHOP(Georgia Institute of

(E) 申請專利範圍第十三項至第十四 學效率計算應用。《 **向該領域者所熟知** 項係 關 ,故不符合發月專利要件之進步性 於透鏡及/或模具之量測 描述,及簡易之繞射光

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四 申請專利範圍第十五項至第四十九項係關於繞射鏡之光學像差及繞射 標準的繞射效率計算方法及/或計算裝置,如Code V光學計算軟體即具備上述功能 效率之計算 亦係

故亦不具進步性。

熟知

,不符發明專利要件

(五)綜上所述,本案係運用申請前既有之技術,所揭示之各技術內容係為熟習該項技術者所

據上論結,本案不符法定專利要件,爰依專利法第二十條第二項,審定如主文。

局長は

明

依照分層負責規定授權單位主管決行

百元整,向本局申請再審查。 如 不服本審定,得於文到之次日起三十日內,備具再審查理由書一式二份及規費新台幣參仟伍

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訂

受 文 者 :林鎰珠 先生) 松下電器產業股份有限公司(代理

地

址

北市長安東路二段一一二號九

五

發文文號: 赘文 中華民國九十一年四 第〇九一八二〇〇二〇五八號 〈九一〉智專三(一)02031字

司 內 Ó 積 本案 案 註)若有具體 イセー **太多。** 元 明 申請面詢」, 如有修正應繳 JE. 如 一五二〇 0] ,本局認為有必要吃級修正規費新台幣壹任 斜 不提 號 專利 或 說 出申復資料 明, 再 請於文 查 要時 , 經 到 不 審 得要求 得要求延,另安排 元次 查 正 日 後 起 發 0 六 現 地若希 期 尚 日 , 有 本 ` 望內 如 時間 來 启 提 說 局 依 出 申 舉當 現 欄 有資 辨 面復 面面 說 示 斜 範明 不 詢或及 進 明 , 說有 明關 之 定 並 反 繳 請 證 交 資料 以 於 (免本) 申 本 復 新 說 台 明

並的正示單並書本件 將 案 其 繞 0 所 述 繞 射 合 審定 率與 射 而 本 於標準 書 於 求 案 利 之 得繞 標 設 用 理 繞 計 石 所 的的 射 主 效 要係 述 率 不具 一迴鏡 、上重片生一。另外,「再審查理由書」另一重點則闡述初審近及其引證資料所顯示,本案「所述之方程式及/或演算機構雙狹縫及多狹縫干涉」之繞射強度隨位置變化關係之計算中旋積(convolution prounction 全 計 全體之繞射效率」。如你「計算每一環節・ 算裝置 別 利 步 性 登 登 登 , 具有· 光 之繞 栅 然全體 元 件 鏡 之透 , 繞射率包括來自各環帶之繞射效率,藉由各環 之 鏡 射 及 率 讀取 算 光學系 方 藉由各環帶 法 統 • 之計算中(如附件 的 然 (如附件 繞 繞 誠 射 射 如 審引 再 之 , , 係一標 自然應依之重疊率 自然 審 證 中所 算 查 方 理 準 c:\A9100140.939

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之技術範疇,不具進步性。綜上所述,本案係運用申請前既有之技術括利用鑽石車刀成形之繞射鏡者。本案並未對該類技藝作創新或新穎僅與光柵元件之結構有關,而與是否利用鑽石車刀加工成形無關。上 能 輕易完成者 依專利法第二十條第二項規定 難謂符合發明專利要件。 7、術,而為熟習該項技術者所類設計,其設計不脫離前述上述習知之計算方式自然包

能容節智慧財產局

第二頁

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